



TECHNICAL SPECIFICATIONS

STACBOND A2
non-combustible ACP

VER: 02/2023

A2 CORE | 0.5 mm - 4 mm

PANEL PHYSICAL SPECIFICATIONS	UNITS	VALUE	NORM
Total thickness	mm	4	
External painted face thickness	mm	0.50	
Internal painted face thickness	mm	0.50	
Panel weight	kg/m ²	9.30±8%	
Visible face aluminium alloy		5005	UNE EN 573-3
Hidden face aluminium alloy		3005 / 3105*	UNE EN 573-3

SHEET DIMENSIONS	UNITS	VALUE	
Width (min. / max.)	mm	800 / 1600 **	
Length (min. / max.)	mm	2000 / 6000**	
Thickness tolerance	mm	-0.15 / +0.10	
Width tolerance	mm	-0 / +2	
Length tolerance	mm	-0 / +10	
Squareness (diagonal tolerance)	mm	± 3	
Protective film width tolerance	mm	0; -5	

TECHNICAL SPECIFICATIONS OF THE PANEL	UNITS	VALUE	NORM
Peeling	N/mm	≥ 3	ASTM D903 - 98 (2004)
Rigidity (EI)	kNcm ² /m	2400	DIN 53293
Resistant module (W)	cm ³ /m	1.40	DIN 53293
Acoustical insulation Rw (C;Ctr)	dB	29 (-1; -3)	ISO 717-1: 2013
Sound reduction (Rw)	dB	29.60 ± 1.30	ISO 717-1: 2013
Thermal resistance (R)	m ² k/W	0.0168	UNE-EN ISO 12567-1
Thermal transmittance (U)	W/m ² k	5.64	UNE-EN ISO 12567-1
Thermal conductivity (λ)	W/m°C	0.4028	UNE-EN ISO 12567-1
Operating temperature	°C	- 50 / + 80	

A2 CORE SPECIFICATIONS	UNITS	VALUE	NORM
Density	g/cm ³	2.20 ± 0.15	
Fire reaction		A2 - S1,d0	UNE-EN 13501:2018

ALUMINIUM TECHNICAL SPECIFICATIONS	UNITS	VALUE	NORM
Alloy		5005	3005/3105
		H42/H44	H42/H44
Modulus of elasticity (E)	N/mm ²	70 000	70 000
Proof stress (R _{p0.2})	N/mm ²	≥ 80	≥ 110
Tensile strength (R _m)	N/mm ²	125 ≥ R _m ≥ 185	145 ≥ R _m ≥ 215
Elongation (A ₅₀)	%	≥ 3	≥ 4
Density (ρ)	kg/m ³	2700	2700
Thermal expansion (α)	mm/m (100°)	2.36	2.36

Specifications of use:

There may be limitations in the manufacture of STACBOND® A2 panels with high gloss finishes. Please consult STAC® for compatible finishes.

* Aluminium alloy 5005 available by customer request.

** Check with us for other dimensions.